U.S. EXPRESS MAIL EV060047067US
Foley & Lardner - 310-277-2223
Atty: David A. Blumenthal
Title: VIDEO DATA CONVERSION APPARATUS AND
VIDEO DATA CONVERSION
Inventor(s): Manabu SHIBUTANI
DOCKET NO.: 088485-0238
Sheet I of 7

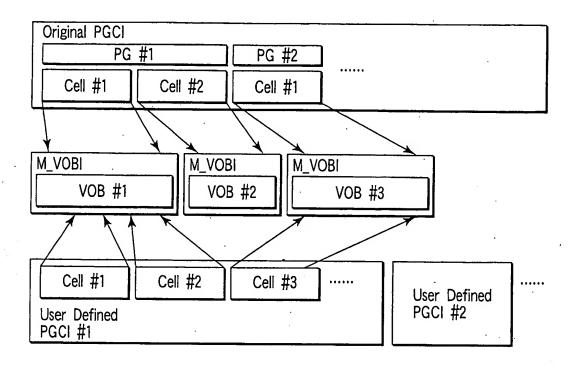
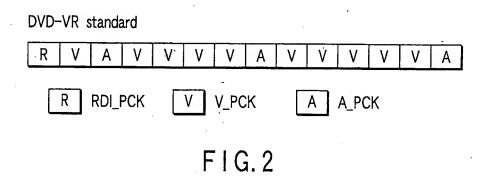


FIG.1



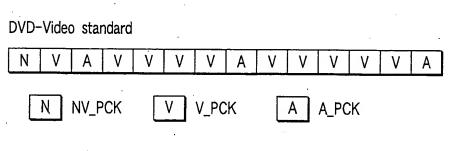


FIG. 3

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## Sequence header

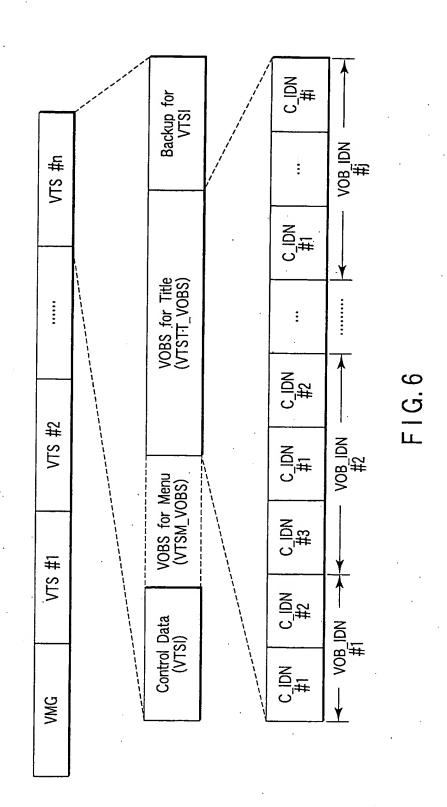
Field	Number of bits	Contents
sequence_header_code	32	Sequence layer start code
horizontal_size_value	12	Image horizontal size
vertical_size_vavlue	12	Image vertical size
aspect_ratio_information	4	Aspect ratio
frame_rate_code	4	Image display period
bit_rate_value	18	Bit rate
marker_bit	1	Marker bit
vbv_buffer_size_value	10	Virtual buffer size
constrained_parameters_flag	1	Presence/absence of parameter limitation
load_intra_quantiser_matrix	1	Presence/absence of intra-quantization matrix
intra_quantiser_matrix	8*64	Intra-quantization matrix
load_non_intra_quantiser_matrix	· 1	Presence/absence of non-intra-quantization matrix
non_intra_quantiser_matrix	8*64	Non-intra-quantization matrix

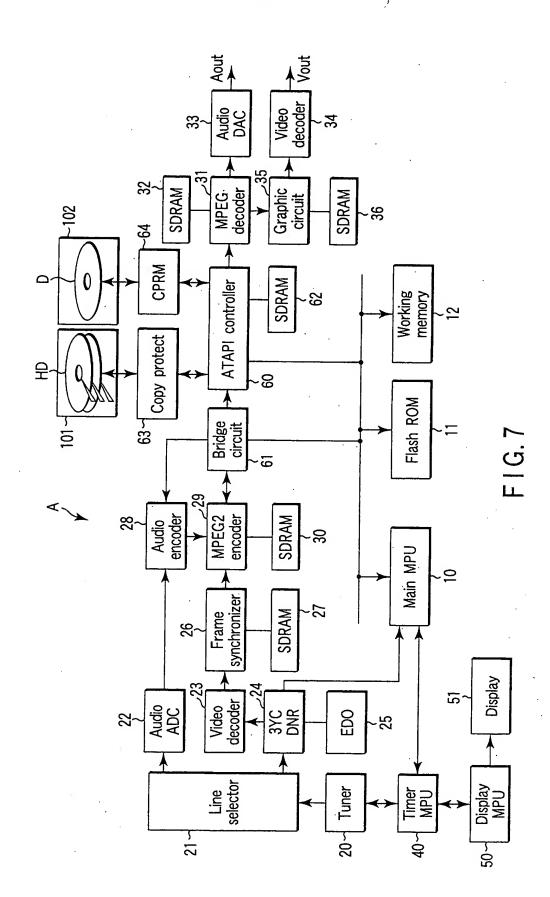
## FIG.4

## Sequence display extension

Field	Number of bits	Contents
extension_start_code_identifier	4	Extension data start code
video_format	3	Video format of Original signal
colour_description	1	Presence/absence of color space data
colour_primaries	8	Color characteristic of original signal
transfer_characteristcs	8	Photoelectric conversion
matrix_coefficients	8	Conversion of original Signal from three primary colors
display_horizontal_size	14	Horizontal active region of intended display
marker_bit	1	Marker bit
display_vertical_size	14 ·	Vertical active region of intended display

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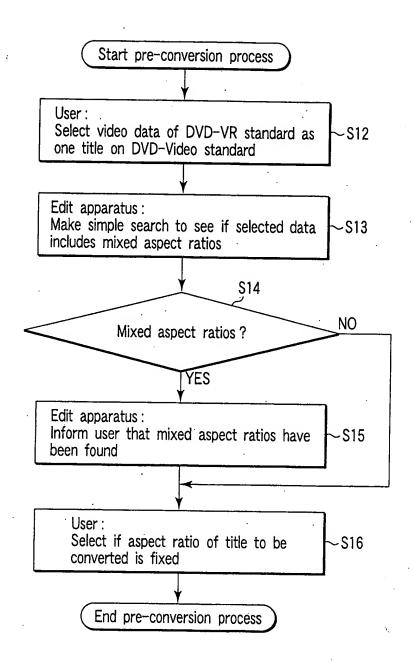


FIG.8

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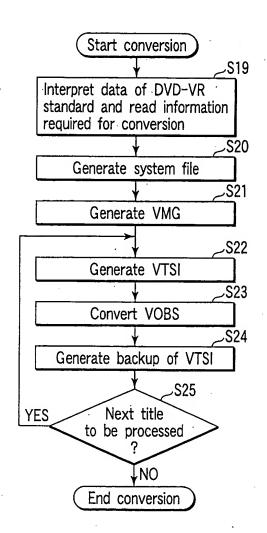


FIG.9

Start VOBS conversion

S28

Read 1 VOBU from HDD into memory

S29

Convert 1 VOBU

S30

Write 1 VOBU from memory to DVD-R

S31

Another

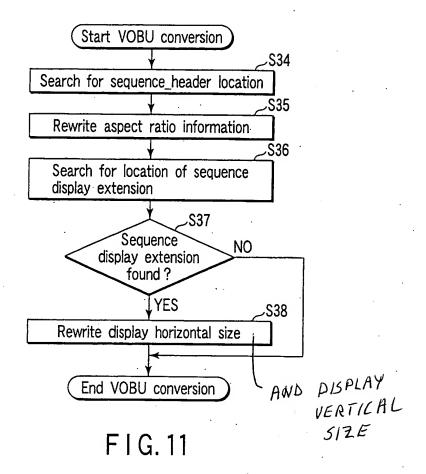
VOBU to be processed

NO

End VOBS conversion

FIG. 10

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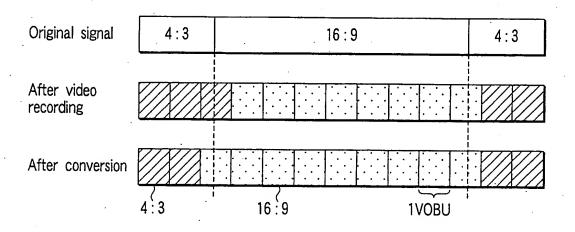


FIG. 12